

FLUORIDE BY ION-SELECTIVE ELECTRODE METHOD**SM 4500-F C-1997 (2011)**

ADDITIONAL QC REQUIREMENTS FOR THIS METHOD: Certified or Accredited laboratories using this method are assessed to applicable requirements of SM 1020 and SM 4020.

Facility Name: _____ VELAP ID: _____

Assessor Name: _____ Analyst Name: _____ Inspection Date: _____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
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Records Examined: SOP Number/ Revision/ Date: _____ Analyst: _____

Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____

Are samples analyzed within 28 days (No preservation required)?	40CFR136.3 Table 1I				
If solids content is greater than 10,000 mg/L (1%), are samples distilled prior to analysis?	4500-F C.1.b				
Are fiber-tipped electrodes NOT used?	4500-F C.2				
Are standards and samples brought to the same temperature?	4500-F C.4.c				
Is 10 to 25 mL of sample pipetted to a 100-mL beaker or other suitable container?	4500-F C.4.c				
Is a CDTA-containing buffer used?	4500-F C.3.c				
Is the amount of buffer added equal to the volume of the samples and standards (or if using a commercially made buffer are the manufacturer's directions followed)?	4500-F C.4.c				
Is magnetic stirring not initiated until after immersion of the electrode?	4500-F C.4.d				
Was electrode allowed to sit in samples/standards for 3 minutes or until reading is constant?	4500-F C.4.d				
Was electrode rinsed with distilled water and gently blotted dry between samples?	4500-F C.4.d				
If a direct-reading instrument was not used, were concentrations plotted on logarithmic axis against millivolts on the abscissa to form curves? (<i>Known additions can be substituted for curves.</i>)	4500-F C.4.d				
Is concentration calculated as: mg F/L = $\mu\text{g F/mL sample}$	4500-F C.5				

Notes/ Comments: